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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Integrated document caching and prefetching in storage hierarchies based on Markov-chain predictions

Achim Kraiss, Gerhard Weikum

August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3

Full text available: pdf(603.01 KB) Additional Information: full citation, abstract, citings, index terms

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keywords: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage

3 Assessing the quality of voice communications over internet backbones

Athina P. Markopoulou, Fouad A. Tobagi, Mansour J. Karam

October 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 5

Full text available: pdf(906.27 KB) Additional Information: full citation, abstract, references, citings, index terms

As the Internet evolves into a ubiquitous communication infrastructure and provides various services including telephony, it will be expected to meet the quality standards achieved in the public switched telephone network. Our objective in this paper is to assess to what extent today's Internet meets this expectation. Our assessment is based on delay and loss measurements taken over wide-area backbone networks and uses subjective voice quality measures capturing the various impairments incurred. ...

Keywords: computer networks, internet, measurements, voice communications, voice over IP (VoIP), voice quality assessment

4 A predictive self-tuning fuzzy-logic feedback rate controller

Rose Qingyang Hu, David W. Petr

December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6

Full text available: pdf(281.19 KB) Additional Information: full citation, references

Keywords: adaptive control, asynchronous transfer mode, computer network performance, feedback systems, fuzzy control, predictive control, traffic control

5 Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles**, Volume 35 Issue 5

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

Internet hosting centers serve multiple service sites from a common hardware base. This paper presents the design and implementation of an architecture for resource management in a hosting center operating system, with an emphasis on *energy* as a driving resource management issue for large server clusters. The goals are to provision server resources for co-hosted services in a way that automatically adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

6 A Formal Approach to Frequent Energy Adaptations for Multimedia Applications

Christopher J. Hughes, Sarita V. Adve

March 2004 **ACM SIGARCH Computer Architecture News , Proceedings of the 31st annual international symposium on Computer architecture ISCA '04**, Volume 32 Issue 2

Full text available: pdf(330.09 KB) Additional Information: full citation, abstract

Much research has recently been done on adapting architecturalresources of general-purpose processors to saveenergy at the cost of increased execution time. This workexamines adaptation control algorithms for such processorsrunning real-time multimedia applications. The best previousalgorithms are mostly heuristics-based and ad hoc, requiringan impractically large amount of application- andresource-specific tuning.We take a more formal approach that does not require thelarge tuning effort of pre ...

7 Experiments with digital video playback

Richard Gerber, Ladan Gharai

May 1996 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 24 Issue 1

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages.In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: *compression type, frame size, digitized rate, spatial quality* and *keyframe distribution.* The tests were carried out ...

Results 1 - 7 of 7

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